What is claimed is:

A balloon dilation catheter comprising:

a tubular member having a proximal end and a distal end;

an inflatable balloon disposed at the distal end of the tubular member;

a first lumen disposed in the tubular member and in communication with an interior of the inflatable balloon;

a second lumen disposed in the tubular member for receiving a guidewire along at least a portion of its length, the second lumen having a first opening in the proximal region of the tubular member and a second opening at the distal region of the tubular member; and

a first slit disposed longitudinally in the tubular member and extending along at least a portion of the tubular member, the first slit comprising a first pair of longitudinal edges in a side by side relationship, the tubular member being constructed of a resilient material such that, as the guidewire is separated from the second lumen, the longitudinal edges are biassed open from a first position to a second position having a gap greater than or equal a diameter of the guidewire.

- 2. The balloon dilation catheter defined in claim 1, wherein, in the first position, the first pair of longitudinal edges are in an abutting relationship.
- 3. The balloon dilation catheter defined in claim 1, wherein, in the first position, the second pair of longitudinal edges are in spaced relationship, a space between the longitudinal edges being less than the diameter of the guidewire.
- 4. The balloon dilation catheter defined in claim 1, wherein the first slit extends from the first opening to the second opening
- 5. The balloon dilation catheter defined in claim 1, further comprising an adapter attached to the proximal region of the tubular member.

- 6. The balloon dilation catheter defined in claim 5, wherein the adaptor comprises a valve comprising a second slit and third lumen for receiving the guidewire, the second lumen and the third lumen in communication with one another.
- 7. The balloon dilation catheter defined in claim 6, wherein the second slit comprises a second pair of longitudinal edges in a side by side relationship, the valve being constructed of a resilient material such that, as the guidewire is separated from the third lumen, the longitudinal edges are biassed open from a first position to a second position having a gap greater than or equal a diameter of the guidewire.
- 8. The balloon dilation catheter defined in claim 7, wherein, in the first position, the second pair longitudinal edges are in an abutting relationship.
- 9. The balloon dilation catheter defined in claim 7, wherein, in the first position, the second pair of longitudinal edges are in spaced relationship, a space between the longitudinal edges being less than the diameter of the guidewire.
- 10. The balloon dilation catheter defined in claim 6, the first slit and the second slit are in substantial longitudinal alignment.
- 11. The balloon dilation catheter defined in claim 1, wherein the inflatable balloon comprises a third slit in substantial alignment with the first slit.
- 12. The balloon dilation catheter defined in claim 1, the tubular member comprises a fourth lumen for receiving a stiffening member.
- 13. The balloon dilation catheter defined in claim 12, further comprising the stiffening member disposed in the third lumen.

- 14. The balloon dilation catheter defined in claim 1, wherein the first lumen and the second lumen each comprise a passageway having a substantially circular cross-section disposed in a substantially solid tubular member.
- 15. The balloon dilation catheter defined in claim 1, wherein one of the first lumen and the second lumen comprises a passageway having a substantially circular shaped cross-section disposed in a substantially solid tubular member, and the other comprises a passageway having a substantially semi-circular shaped cross-section disposed in a substantially solid tubular member.
- 16. The balloon dilation catheter defined in claim 1, wherein the first slit extends along substantially the entire length of the tubular member.
- 17. The balloon dilation catheter defined in claim 1, wherein the first slit extends along a portion of the length of the tubular member.
- 18. The balloon dilation catheter defined in claim 17, wherein the tubular member comprises a guidewire port disposed distally of the first slit and in communication with the second lumen.
- 19. The balloon dilation catheter defined in claim 18, wherein the guidewire port comprises a ramp to direct a proximal end of the guidewire through the guidewire port as the guidewire is moved proximally in the second lumen.
- 20. A catheterization kit comprising:

  a guide catheter;

  a guide wire; and

  the balloon dilation catheter defined in claim 1.

21. A stent-mounted balloon catheter comprising:

the balloon dilation catheter defined in claim 1 and a stent mounted on the inflatable balloon of the catheter.

A balloon dilation catheter comprising:

a tubular member having a proximal end and a distal end;

an inflatable balloon disposed at the distal end of the tubular member;

a first lumen disposed in the tubular member and in communication with an interior of the inflatable balloon;

a second lumen disposed in the tubular member for receiving a guidewire along at least a portion of its length, the second lumen having a first opening in the proximal region of the tubular member and a second opening at the distal region of the tubular member;

a first slit disposed longitudinally in the tubular member and extending along at least a portion of the tubular member, the slit permitting withdrawal of the guidewire from the second lumen; and

an adapter attached to the proximal region of the tubular member, the adaptor comprising a valve comprising a second slit and third lumen for receiving the guidewire, the second lumen and the third lumen in communication with one another, the second slit comprising a pair of longitudinal edges in a side by side relationship, the valve being constructed of a resilient material such that, as the guidewire is separated from the third lumen, the longitudinal edges are biassed open from a first position to a second position having a gap greater than or equal a diameter of the guidewire.